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COUNTRY Hungary

REPORT

SUBJECT Lörinc Rolling Mill, Budapest

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eleven-page report with two layout sketches on the Lörinc Rolling Mill (Lörinci Hengerű) in Budapest. The report contains information on

- a. the location,
- b. security measures,
- c. labor force,
- d. organization,
- e. equipment and installations,
- f. production,
- g. leading officials

of the plant.

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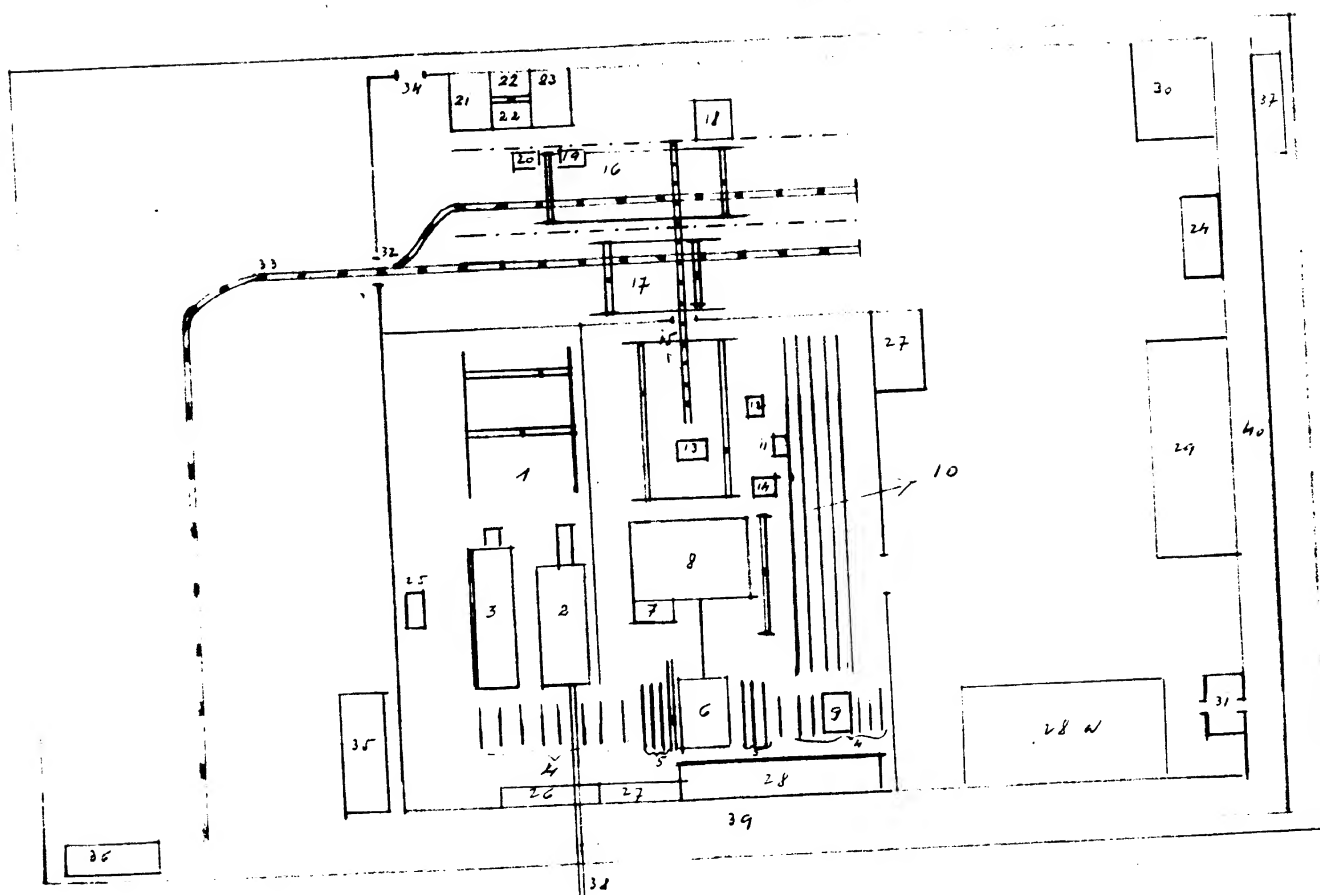
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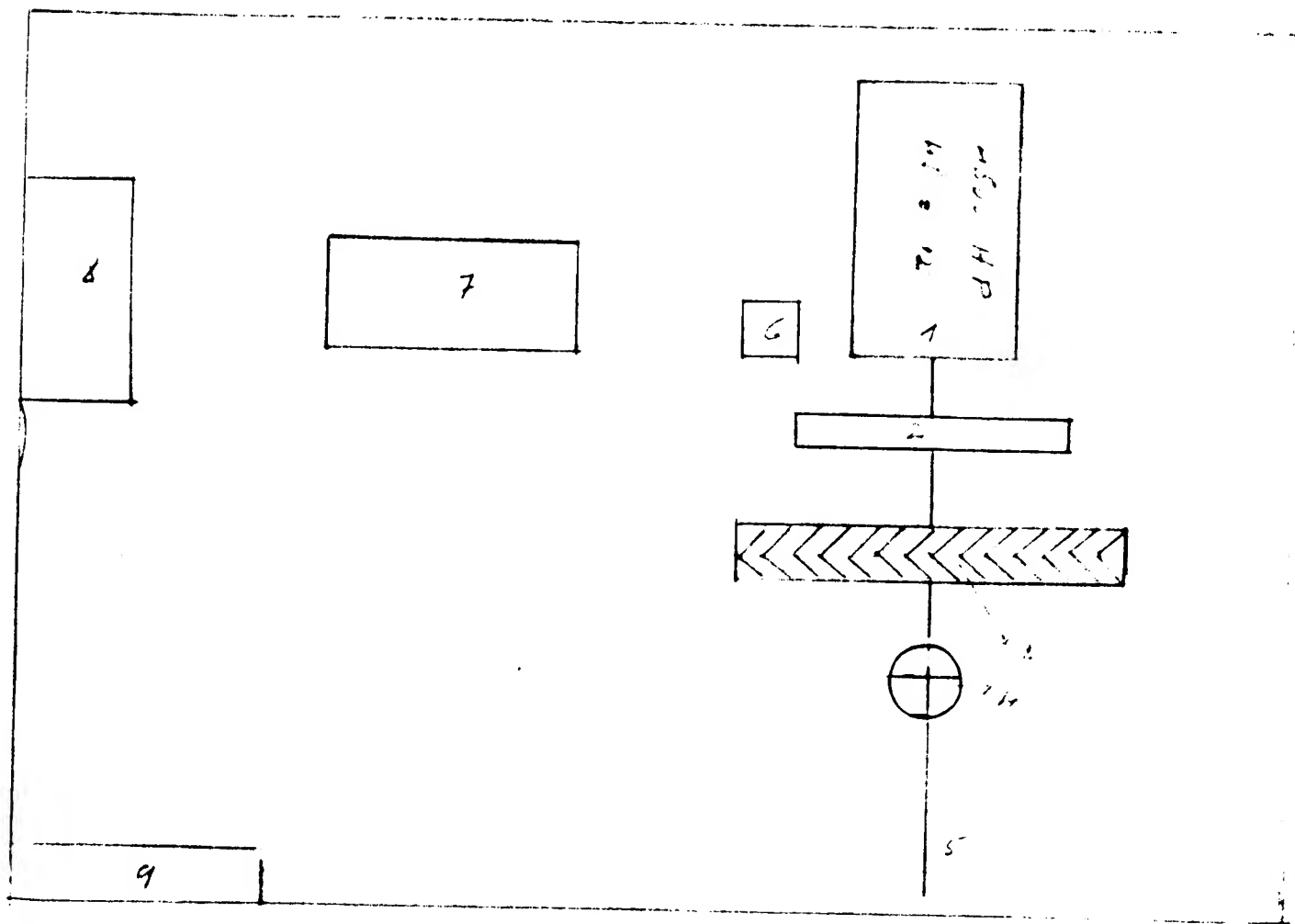
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APP. 3

ATTACHMENT #1

APP. C



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1. The Lorinci Hengermu Steel Plate Rolling Mill, located at No. 38 Hengersor (formerly Apponyi Albert) Street in the Pestszent Lorinc suburb of Budapest XVIII, is subordinated to the Ministry of Metallurgy and Machine Industry. Enclosed by a brick wall 2.5 meters high and topped with barbed wire, the site of the plant extends 250 m. along Hengersor Street and 200 m. along Oreg Temeto (?) Street. The original buildings on the site are made of brick, while the subsequently constructed buildings are of reinforced concrete.
2. Established in 1948 on the premises of the former Liptak Ammunition Factory, the machinery of the plant, transferred to the present site from the town of Diosgyor, was not completely installed until 1950. The following additional facilities have since been installed at the plant: a No. 2 furnace; a cable distribution room, an administration building; offices for the plate storage yard (Iemesteri Irodak); and a maintenance shop (TMK).

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3. The entrances to the plant are guarded by civilian gatekeepers during the day and by armed members of the Industrial Guards (Iparorseg), who wear blue-gray uniforms, at night. An AVH (Security Police) official is permanently assigned to the enterprise and is responsible for these watchmen. In the fall of 1956, an air-raid shelter was being constructed for the staff of the mill at the Economic College.
4. Of the plant's total staff of approximately 800, approximately 180 are employed in administrative and technical supervisory capacities, 200 to 240 in maintenance work, and approximately 400 in actual production. The director of the plant is personally responsible for the following managerial staff:
 - a. The chief engineer, who as first deputy director supervises the following personnel:
 - (1) The chief technologist, who supervises the three shift foremen (Muszaki Uzenvezetok) through the shop manager (Fouzenvezeto). The shifts, designated a (0600), b (1400), and c (2200), are each composed of three "brigades" under a foreman. The three brigades at the blooming mill are called Hengersor Brigadok, at shears Nos. 1, 2, and 3,

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Kikessito Brigadok, and at the plate storage yard, Lemesteri Brigadok. In addition, each brigade is also called a name with a political implication. The shift foreman at the plate storage yard is assisted by a senior brigade foreman (Fomuvegeto).

- (2) The chief mechanic, who supervises the head of the maintenance section (Tervszeru Megelozo Karbantartas - TMK), the TMK office manager, and the production manager. The maintenance section is comprised of the shop manager, who is assisted by one maintenance foreman for each shift, ^{and} the workshop manager, who works during the main shift and whose deputies work the remaining shifts. The TMK office manager is responsible for the fifteen men of the electric power team, under the Energetikus, and for the six to eight fitters, who make periodic inspections of the machinery (TMK Vizsgalati Rendzer).

- b. The chief accountant, who as second deputy director supervises the following senior department heads:

- (1) The head of the accountance division (Konyvelesi Fozosztaly), who is responsible for finance, bookkeeping, cash, and wage accounts.

- (2) The head of the raw materials and commercial branch (Anyag Es Aruforgalmi Focsztaly), who is responsible for the departments of raw material supply, commerce, dispatch, and of storage of materials and finished products.
- c. The personnel manager.
 - d. The head of the technical supervision department (Muszaki Ellenorsesi Osztaly). The department contains a chemical and radiological experimental laboratory and a testing room (probaterem) for metallurgical examinations.
 - e. The guards and gatekeepers.¹
5. The mill contains the following installations and equipment:
- a. A blooming mill (Durvahenger) for the rolling of plates with widths of up to 4,000 mm. and depths of 5 mm. The machine is of 1936 or 1938 Krupp manufacture.
 - b. A No. 1 furnace (Tolokemence), a gas-heated rectangular installation with dimensions of approximately 15 x 4.5 x 3 meters.
 - c. A No. 2 furnace, using Pekura fuel, has dimensions of approximately 18 x 4.5 x 3 meters. Both the No. 1 and the No. 2 furnaces have capacities of 65 tons and can produce temperatures of from 1,100° to 1,200° C.

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- d. 148 rolls for conveying the heated plate from the furnaces to the blooming mill and from there to the cooling bed (hutorama). Each roll (bugagurito) is operated by a separate motor.
- e. Two roller conveying tables (lengoasstal), located on both sides of the blooming mill, for guiding the steel into the rolls.
- f. The control device (kormanyapad) of the blooming mill, operated by a crew foreman, a worker (guritos) who is responsible for guiding the steel into the rolls, and a worker (preses) who is responsible for the roll adjustments.
- g. The 4,500 HP electric motor which drives the blooming mill and operates with a 70-ton flywheel at 450 rpm.
- h. A plate straightener for hot operations.
- i. A cooling bed, which cools the plate to 300° C.
- j. Five shears, No. 2 of which is for longitudinal cutting (vegvago ollo); No. 2 for transverse cutting to the left (szelezo ollo), No. 3 for transverse cutting to the right (szelezo ollo), and Nos. 4 and 5 for cutting of rejected plate.
- k. A trolley for conveying the cut plate to the storage yard.

1. A cold-straightener for rectification after cutting.
- m. A reheating furnace (Lagyitokemence).
- n. Eleven cranes, distributed as follows: one 30-ton crane at the blooming mill; one 25-ton at the machine shop; one 5-ton and one 10-ton at the finishing shop (Kikészítőcsarnok) for servicing shears Nos. 1, 2, and 3; one 5-ton and one 10-ton for feeding the bars into the furnace; one 7-ton and one 10-ton at the No. 1 plate storage yard; one 3-ton and one 5-ton at the No. 2 plate storage yard; and one 5-ton at the workshop.
6. The following equipment is installed at the plant's workshop:
- a. Two lathes², Diosgyor MVE-300 models, have a center height of 600 mm. and are used on pieces of up to 3,000 mm. in length.
- b. One Vulcan lathe, which has a center height of 750 mm. and is used for pieces of up to 5,000 mm. 25X1
- c. One Ottakring lathe, which has a center height of 900 mm. and is used for pieces of up to 8,000 mm. 25X1
- d. One Vorosproletar-manufactured lathe, which has a center height of 300 mm. and is used for pieces of up to 1,500 mm.
- e. A new Csepel lathe, which has a horizontal face plate (karusszel) and is used for pieces of up to 1,500 mm. in diameter.

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- f. A new machine, which is called Horizontal (in Hungarian) and is used for pieces of from 1,200 mm. to 2,200 mm.
 - g. A Csepel gear wheel cutter (Marogep).
 - h. Two Csepel radial drilling machines (radialfurogep), one RF-2 and one RF-5 model, are used for pieces of up to 70 mm. in diameter.
 - i. Two Esztergomi Gepgyar-manufactured milling machines, which are used for pieces of 500 mm. x 600 mm.
 - j. One 75-kg. hydraulic forge hammer, which is an Ajax-Kalapacs model.
 - k. One 300-kg. steam hammer.
 - l. A considerable number of small drilling machines, welding apparatus, and other equipment.
7. A low-carbon steel, called Buga, is used at the mill and received in the form of ingots 200 to 300 mm. thick, 1,200 to 2,000 mm. long, and 500 to 800 mm. wide. It is supplied from the USSR, Poland, Czechoslovakia, the local steel mills in Ozd and in Diosgyor and, since 1956, from Dunapentele (Sztalinvaros). The crude steel from the Dunapentele plant is called Ontecs. The mill also processes the so-called Buga-vas, a chrome-nickel steel which has a 6% chrome-nickel content and a Rockwell rating of 62.

8. The mill has an output of 400 tons of steel plate every 24 hours. The produce is marketed by the Kohert (Kohaszati Erketesito Vallalat) agency to numerous Hungarian plants, including Mavag (railroad trucks and machines), "G" Dej", Ganz, Danubia, Szekefhehervari Vadasztoltenygyar, and the Pres Es Kovacsarugyar (Preko). Established in the Budaors suburb of Budapest in 1953 and 1954, the Preko plant receives considerable quantities of plate of the size 200 x 250 x 80-120 meters.
9. The following persons are employed at Lorinci Hengermu:

a. Belei (fnu), a shift foreman

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b. Csomasz (fnu), chief storekeeper

c. Zoltan Farkas, full-time Party secretary for the entire plant (Csucsparttitkar)

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d. Gaspar (fnu), head of the TMK offices.

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e. Laszlo Hanula, shop manager

f. Horvath (fnu), the AVH official in charge of the industrial guards and gatekeepers.

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g. Dr. Jermendi (fnu), head of the raw material supply department and a jurist

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h. Dr. Kulcsar (fnu), head of the raw material and commercial

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i. Gyula Mokri, Party secretary

j. Istvan Molnar, senior brigade foreman and former Party secretary of Budapest XVIII

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k. Lasslone Molnar, head of the finance department

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1. Zoltan Nagy, chief engineer until late 1954

m. Lajos Rosman, head of the TMK

n. Zoltan Scheffer, chief mechanic

o. Levente Szekely, chief technologist

p. Gyula Varga, personnel manager

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q. Dr. Vertessy (fmu), chief accountant

r. Jozsef Vitay, deputy chief accountant in charge of the
accountancy department

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10. Attached are two legends and sketches of the mill.

Comments:

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1. Although the guards and the gatekeepers are under the supervision of the director, the director cannot entertain authority over them without the prior consent of the AVH official.
2. All of the lathes at the mill are outdated models.

Attachment #1

LEGEND

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1. Charging floor (Bugater)
2. No. 1 furnace
3. No. 2 furnace
4. Conveyor rolls (148)
5. Unknown
6. Blooming mill
7. Blooming mill control device
8. Machine shop
9. Straightener (egyengtogep)
10. Cooling bed
11. Control room for guiding plate to shears
12. No. 1 shears
13. No. 2 shears
14. No. 3 shears
15. Trolley line for conveying out plate to shipping area
16. No. 1 plate storage yard
17. No. 2 plate storage yard
18. Straightener (hidegyengeto)
19. No. 4 shears
20. No. 5 shears
21. Blacksmith and welding shop

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Attachment #1

22. Mechanical workshop
23. Two-story building of TMK offices and a dressing room
24. Offices of the plate storage yards
25. Power switch room (kapsolohaz)
26. Electrical workshop, transformer and battery station
27. Workshop offices
28. Offices
- 28 a. Dining hall, dressing rooms
29. Management offices and office of the AVH official
30. Nursery
31. Pedestrian entrance, through gatekeeper's lodge
32. Railroad gate
33. Railroad tracks to Nos. 1 and 2 plate storage yards
34. Vehicle gate
35. Economic college
36. Kispest Railroad Station
37. Football ground of the Honved team
38. Gas feeder pipe for the No. 2 furnace from the Hoffer Factory
39. Hengersor Street
40. Oreg Temeto (?) Street

 Single crane

 Double crane

 Fence enclosure of plate storage yards

Attachment #2

LEGEND

MACHINE SHOP

1. Electric motor
2. Flywheel
3. Pinion wheel (Nyilfogazasu Kerer)
4. Coupling
5. Transfer shaft
6. Oil lubrication pump
7. Regulating safety device (Inditasbistosito)
8. Governor (?)
9. Switches.